Philips Consumer Electronics

Technical Service Data

Service and Quality
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Knoxville, TN 37914

Manual 7641
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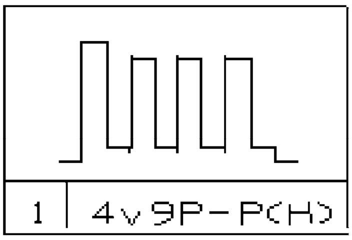
Scope Patterns

REFER TO SAFETY GUIDELINES

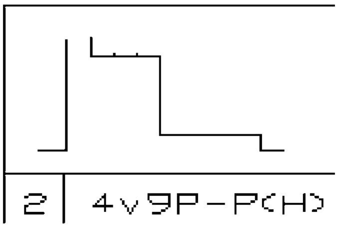
<u>SAFETY NOTICE:</u> ANY PERSON ATTEMPTING TO SERVICE THIS CHASSIS MUST FAMILIARIZE HIMSELF WITH THE CHASSIS AND BE AWARE OF THE NECESSARY SAFETY PRECAUTIONS TO BE USED WHEN SERVICING ELECTRONIC EQUIPMENT CONTAINING HIGH VOLTAGES.

CAUTION: USE A SEPARATE ISOLATION TRANSFORMER FOR THIS UNIT WHEN SERVICING

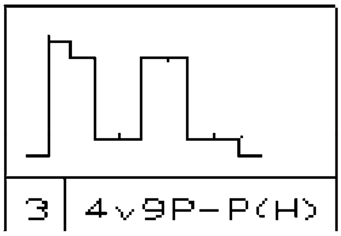
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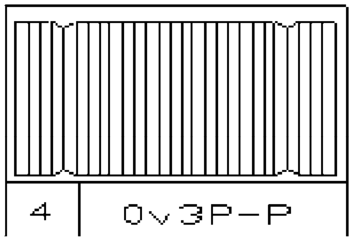
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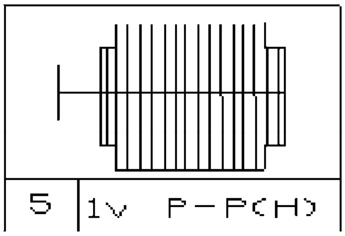
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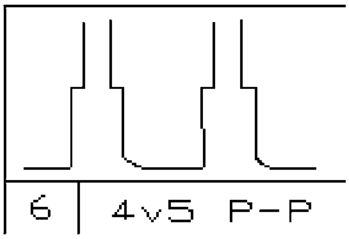
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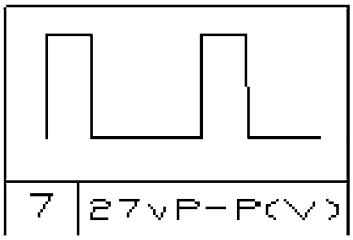
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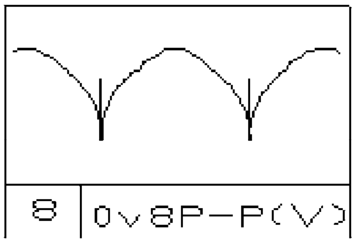
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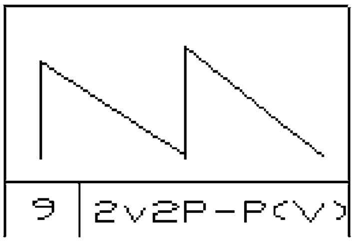
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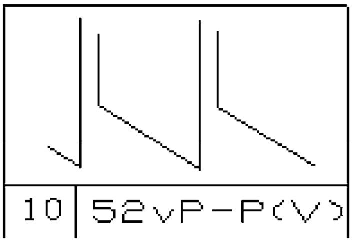
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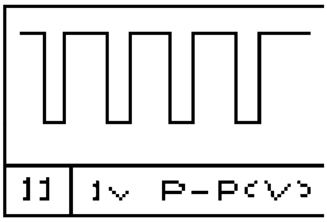
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WF9



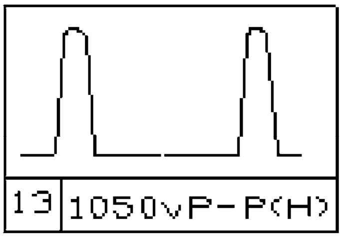
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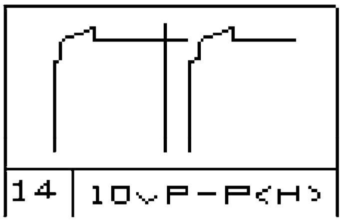
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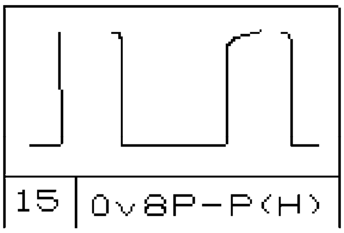
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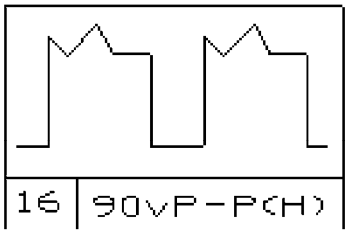
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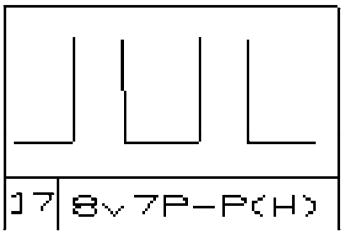
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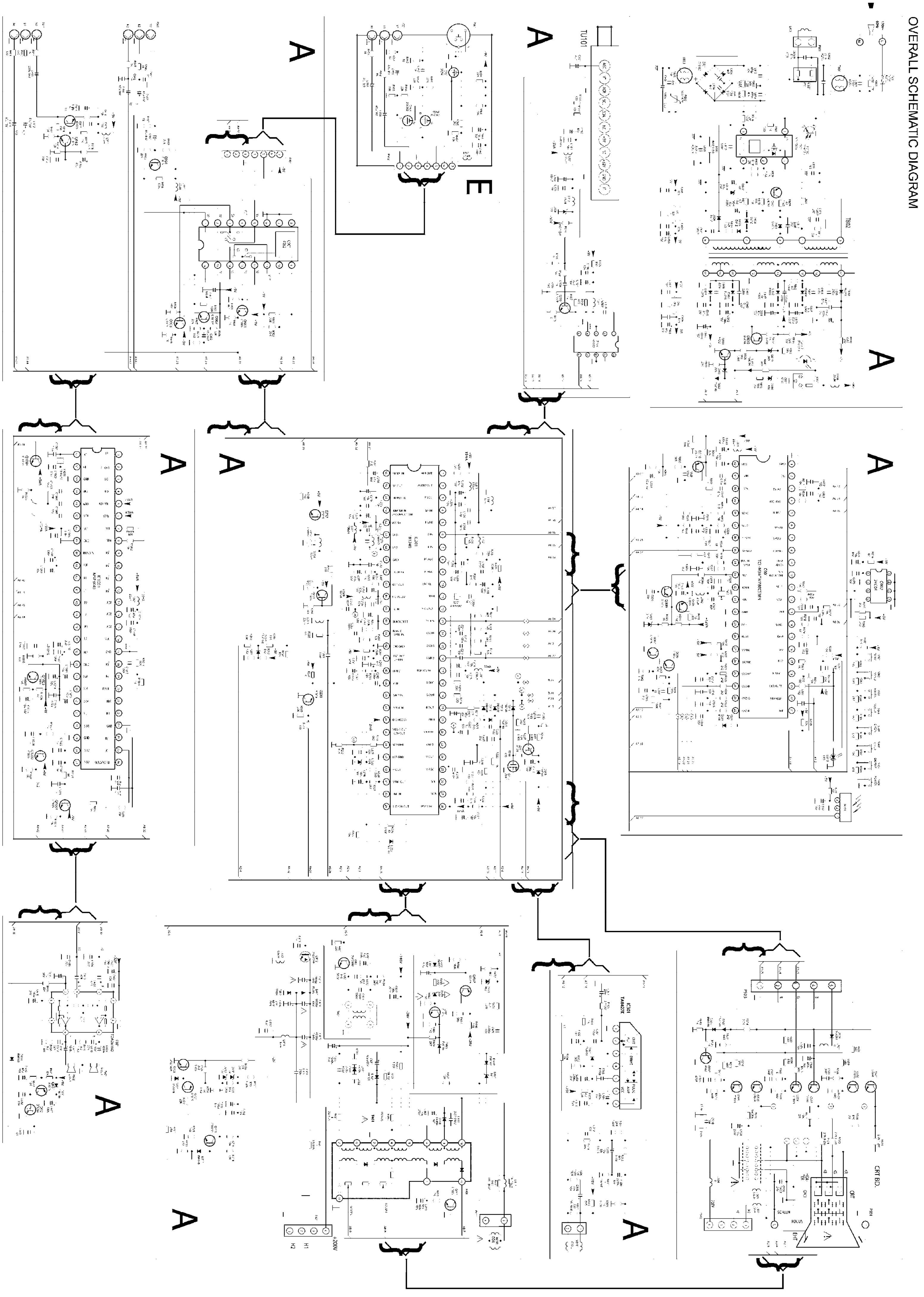
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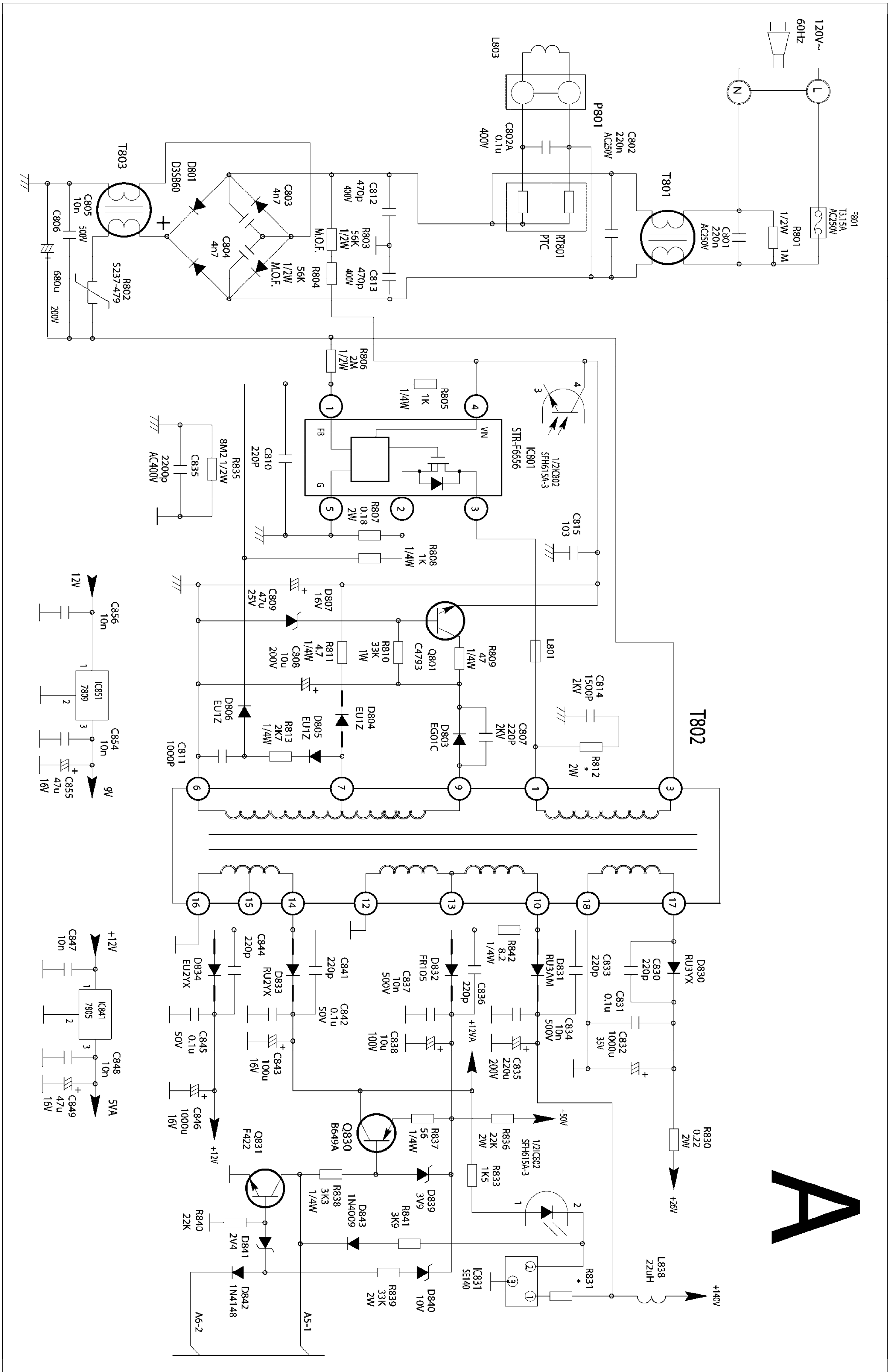


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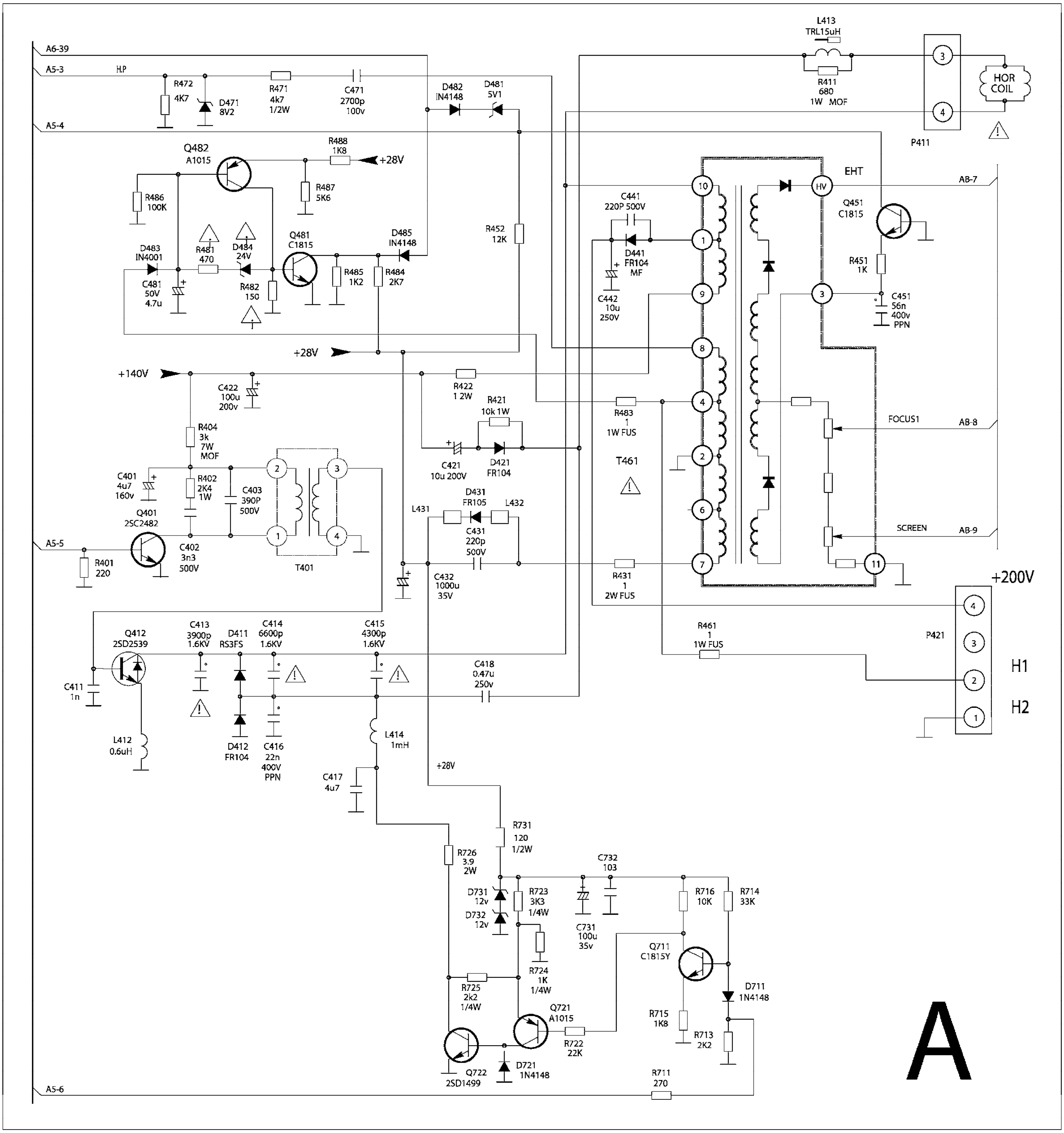


WF17

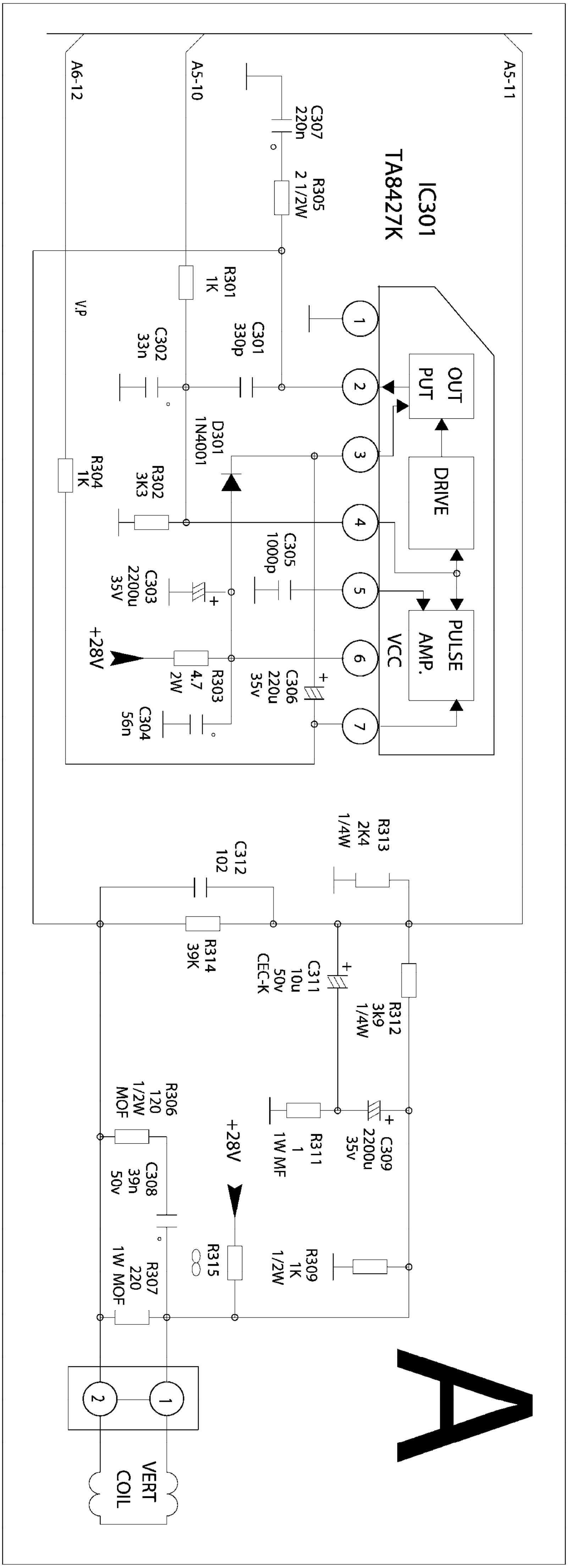

OVERALL SCHEMATIC DIAGRAM

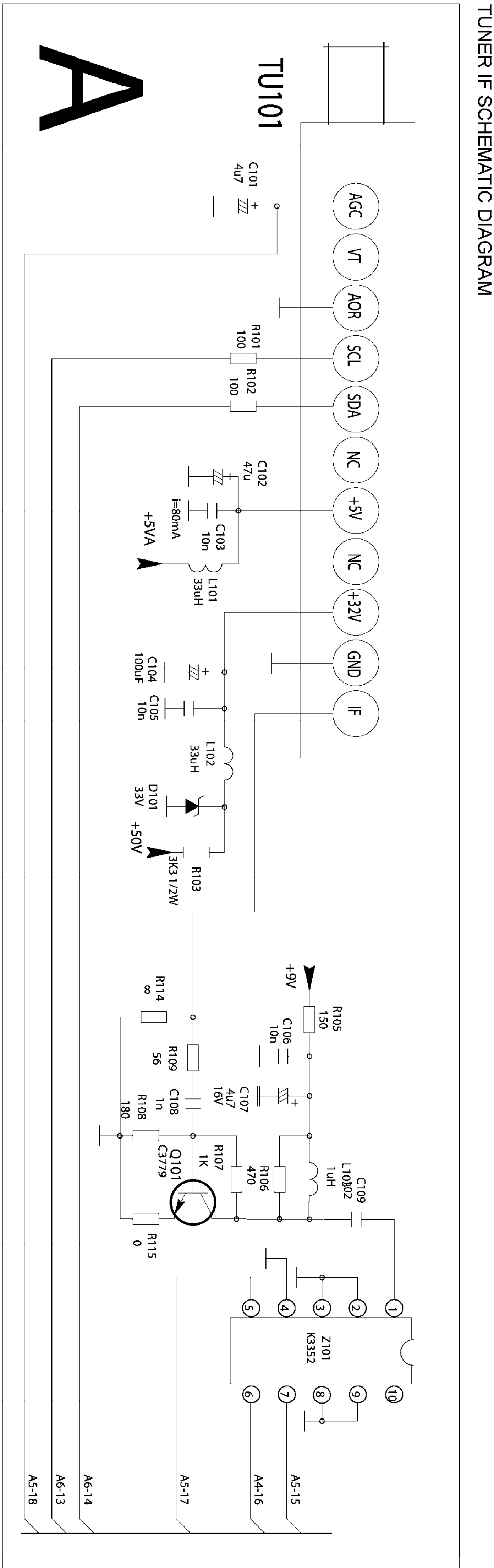

POWER SUPPLY SCHEMATIC DIAGRAM
A
120V~
60Hz
F801
T3.15A
AC250V
T801
T802
T803
P801
L803
RT801
PTC
D801
D3SB60
IC801
STR-F6656
1/2IC802
SFH615A-3
Q801
C4793
Q830
B649A
Q831
F422
IC831
SE140
IC851
7809
IC841
7805
+140V
+26V
+50V
+12V
+12VA
12V
9V
5VA
A5-1
A6-2

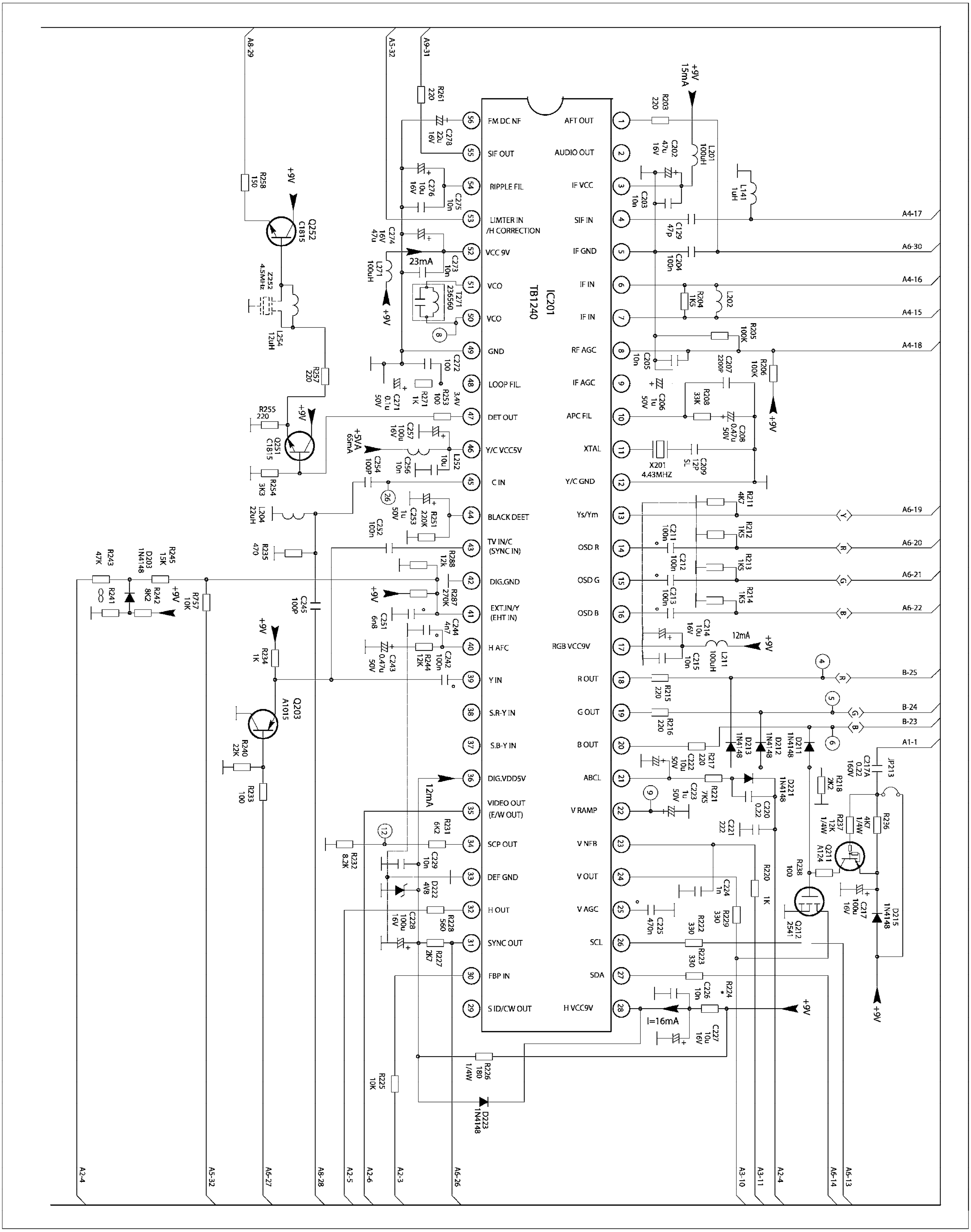
LINE DEFLECTION SCHEMATIC DIAGRAM



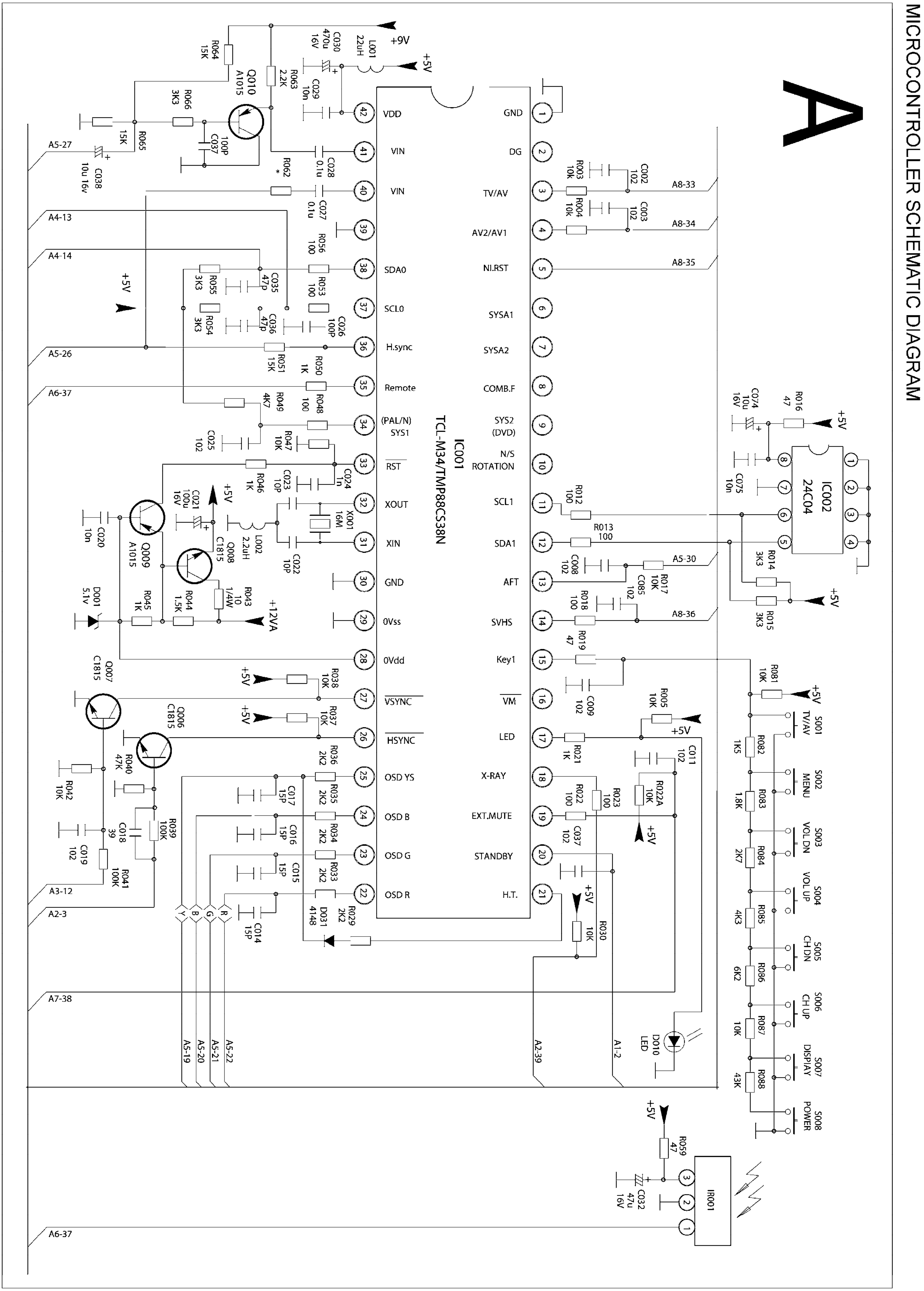
FRAME DEFLECTION SCHEMATIC DIAGRAM



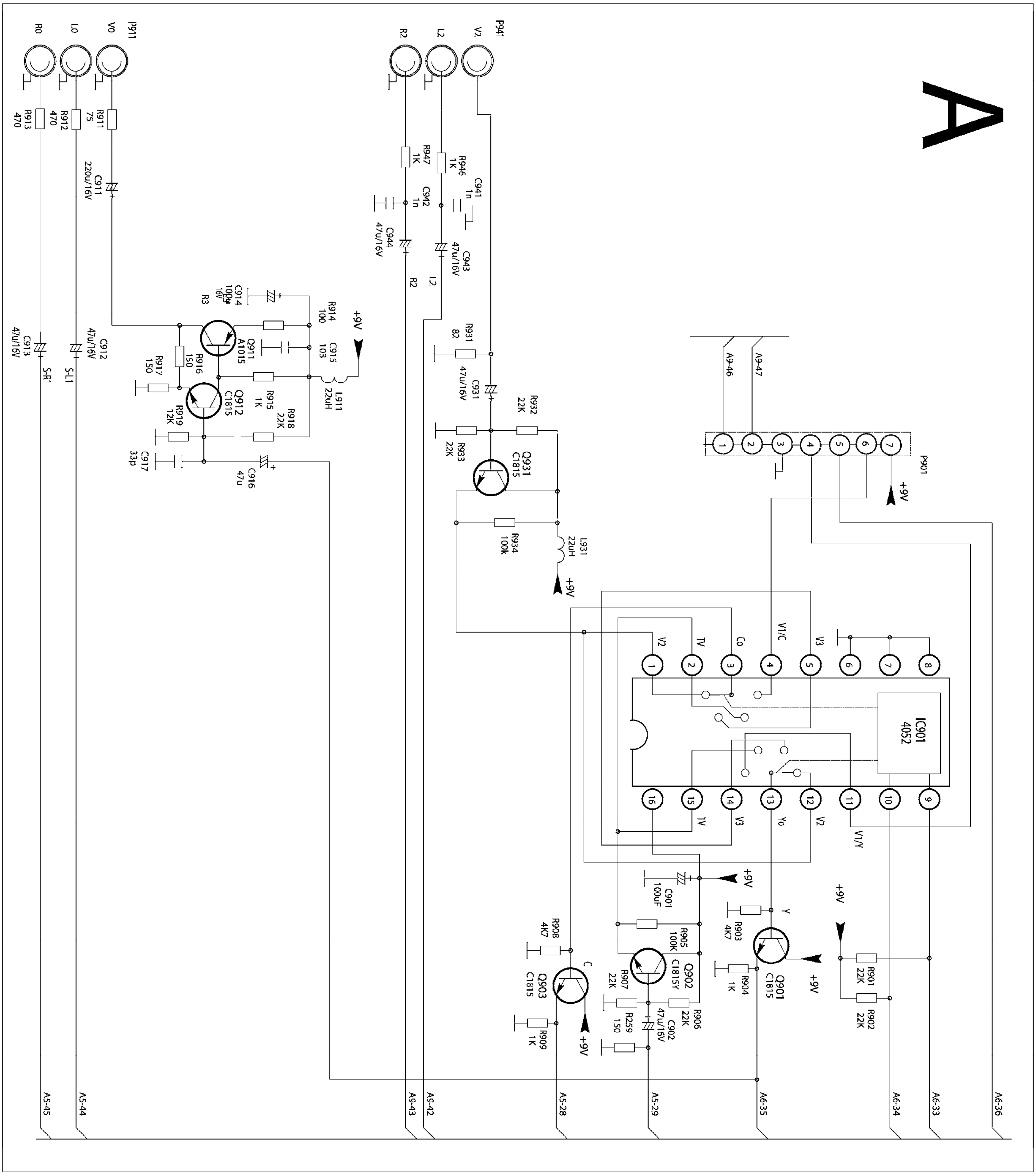

TUNER IF SCHEMATIC DIAGRAM
A
TU101
AGC
VT
AOR
SCL
SDA
NC
+5V
NC
+32V
GND
IF
C101 4u7
R101 100
R102 100
C102 47u
C103 10n
I=80mA
+5VA
L101 33uH
C104 100uF
C105 10n
L102 33uH
D101 33V
+50V
R103 3K3 1/2W
+9V
R105 150
C106 10n
C107 4u7 16V
R114 ∞
R109 56
C108 1n
R108 180
R107 1K
Q101 C3779
R106 470
L103 1uH
C109 102
R115 0
Z101 K3352
A5-18
A6-13
A6-14
A5-17
A4-16
A5-15

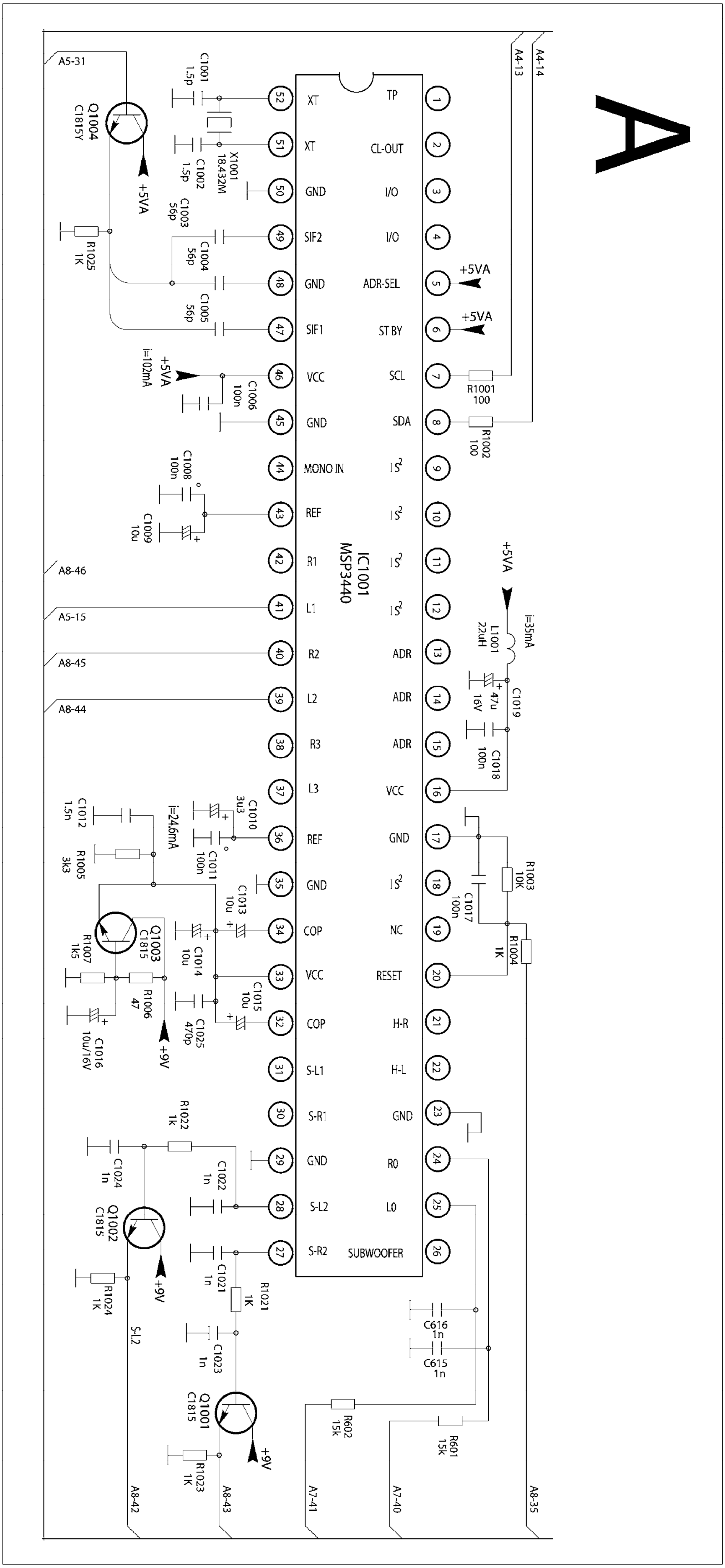


VIDEO AND SOUND IF SCHEMATIC DIAGRAM

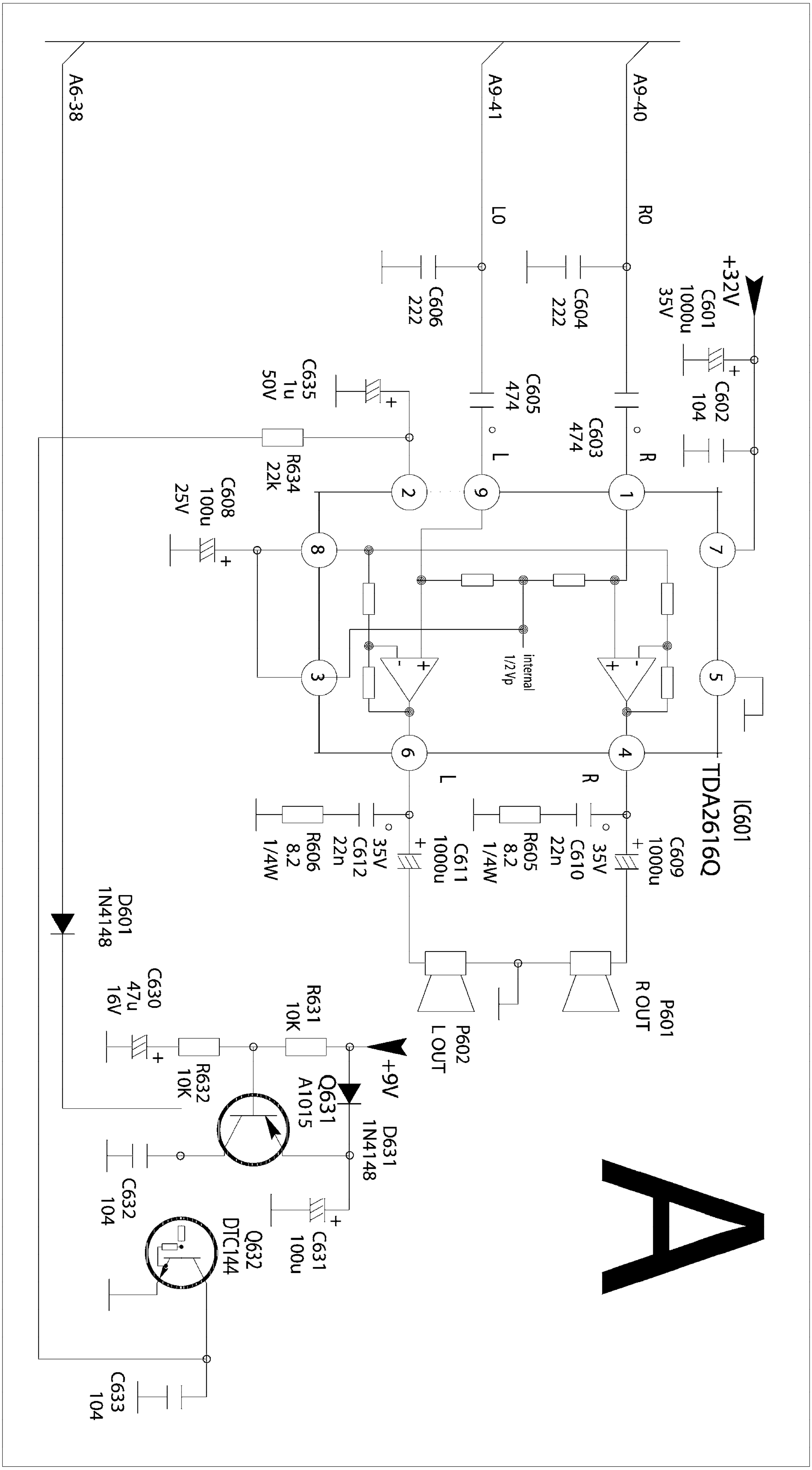

MICROCONTROLLER SCHEMATIC DIAGRAM
A
IC001
TCL-M34/TMP88CS38N
IC002
24C04
IR001

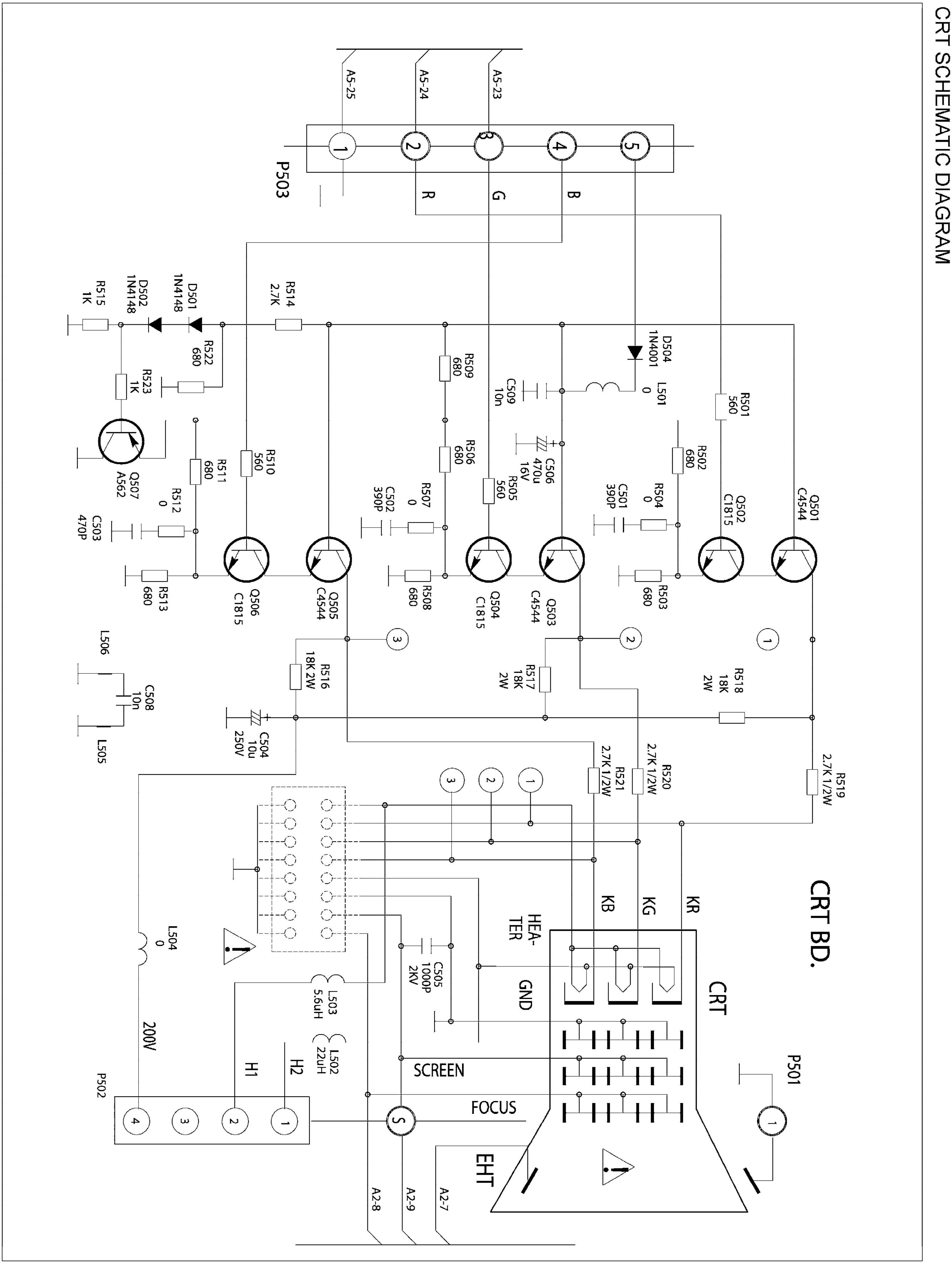
VIDEO AND AUDIO SOURCE SWITCHING SCHEMATIC DIAGRAM



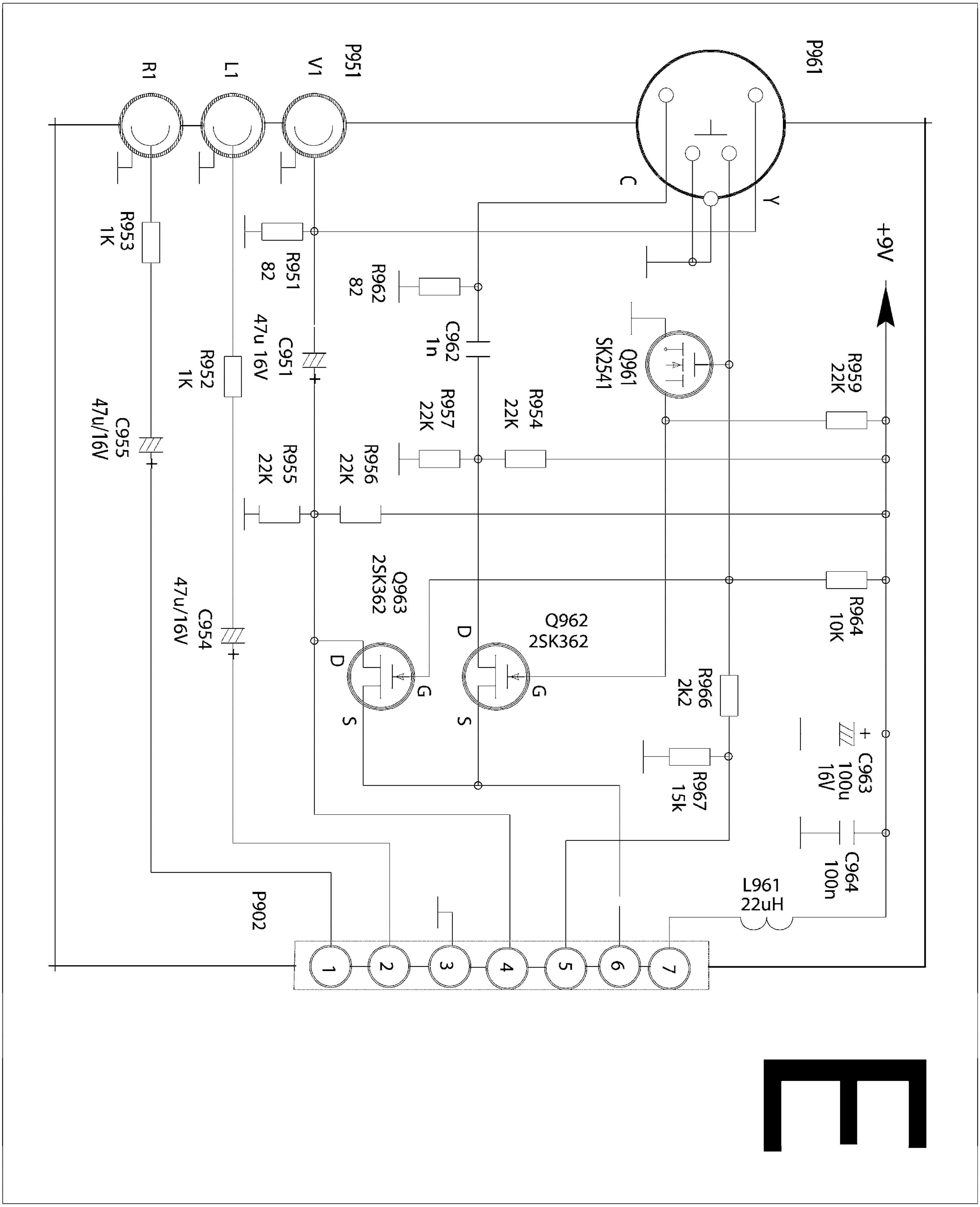

AUDIO PROCESSOR SCHEMATIC DIAGRAM
A
IC1001
MSP3440
TP
CL-OUT
I/O
I/O
ADR-SEL
ST BY
SCL
SDA
ADR
ADR
ADR
VCC
GND
NC
RESET
H-R
H-L
GND
R0
L0
SUBWOOFER
XT
XT
GND
SIF2
GND
SIF1
VCC
GND
MONO IN
REF
R1
L1
R2
L2
R3
L3
REF
GND
COP
VCC
COP
S-L1
S-R1
GND
S-L2
S-R2
A5-31
A8-46
A5-15
A8-45
A8-44
A4-13
A4-14
A8-42
A8-43
A7-41
A7-40
A8-35
S-L2
Q1004
C1815Y
Q1003
C1815
Q1002
C1815
Q1001
C1815
X1001
18.432M
C1001
1.5p
C1002
1.5p
C1003
56p
C1004
56p
C1005
56p
C1006
100n
C1008
100n
C1009
10u
C1010
3u3
C1011
100n
C1012
1.5n
C1013
10u
C1014
10u
C1015
10u
C1016
10u/16V
C1017
100n
C1018
100n
C1019
47u
16V
C1021
1n
C1022
1n
C1023
1n
C1024
1n
C1025
470p
C615
1n
C616
1n
L1001
22uH
R1001
100
R1002
100
R1003
10K
R1004
1K
R1005
3k3
R1006
47
R1007
1k5
R1021
1K
R1022
1k
R1023
1K
R1024
1K
R1025
1K
R601
15k
R602
15k
+5VA
+9V
i=102mA
i=24.6mA
i=35mA

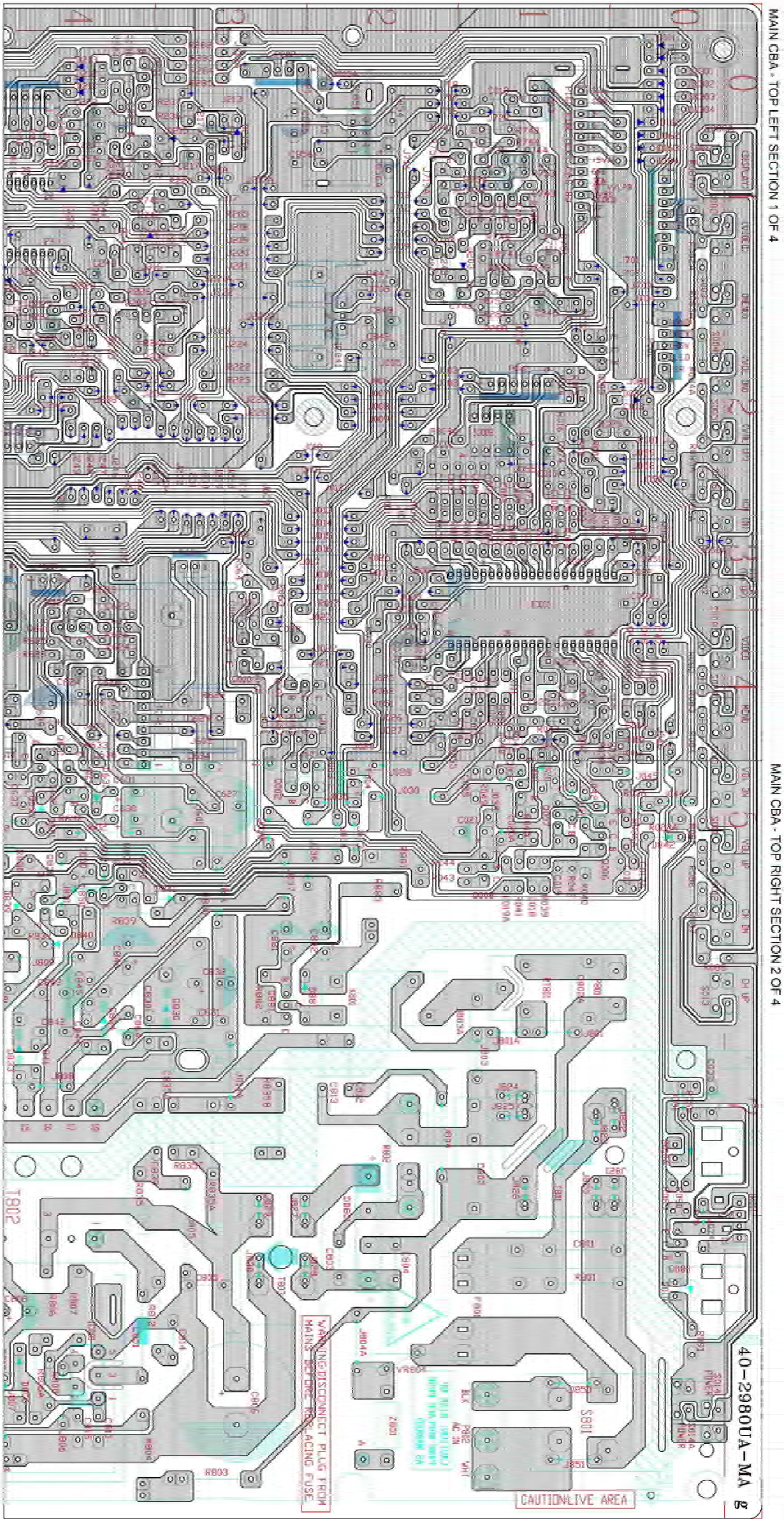
AUDIO POWER AMPLIFIER SCHEMATIC DIAGRAM

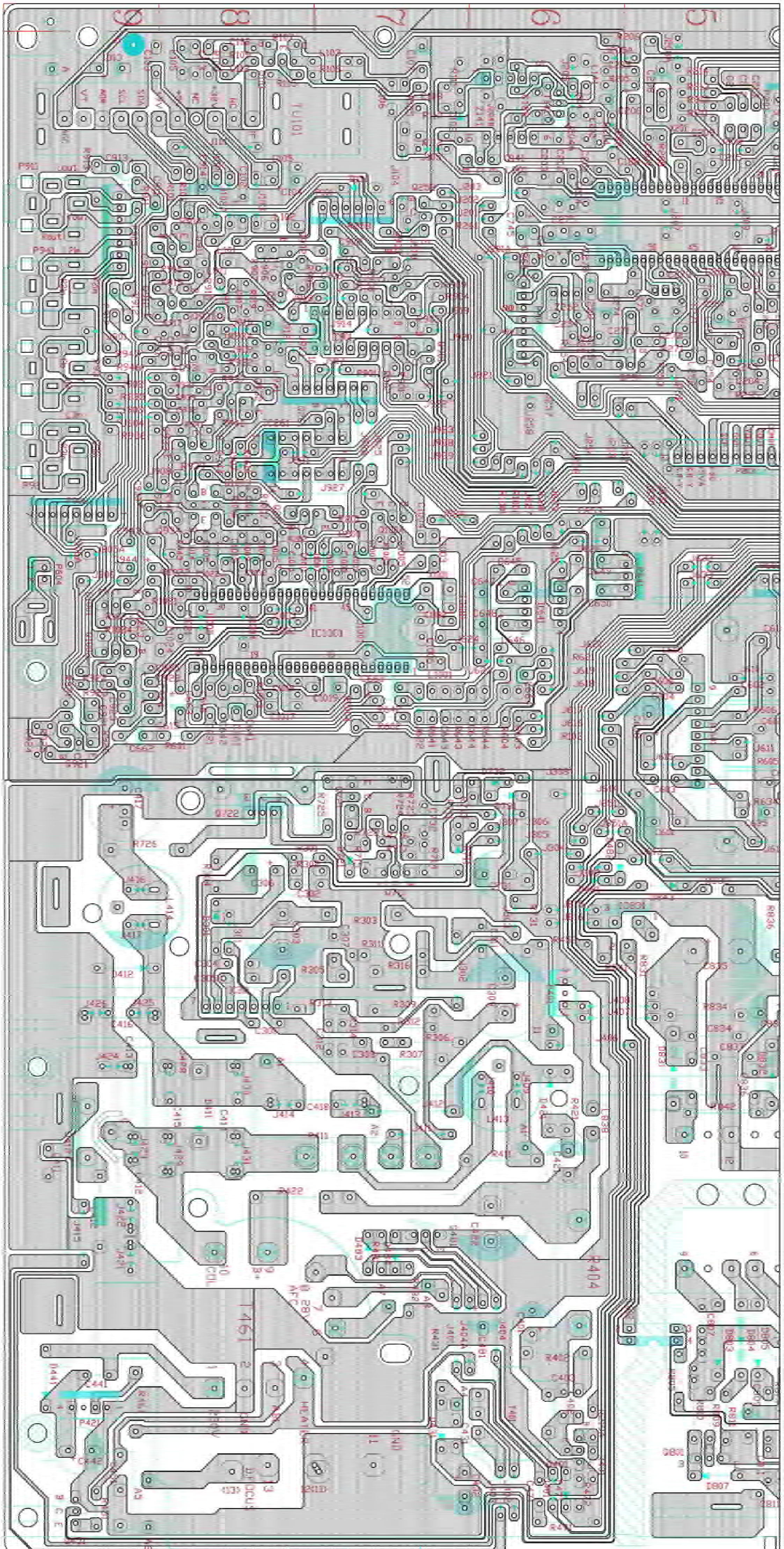



CRT SCHEMATIC DIAGRAM
CRT BD.
A5-25
A5-24
A5-23
P503
R
G
B
R514 2.7K
D501 1N4148
D502 1N4148
R515 1K
R522 680
R523 1K
Q507 A562
R510 560
R511 680
R512 0
C503 470P
R513 680
Q506 C1815
Q505 C4544
R509 680
R506 680
R507 0
C502 390P
R508 680
Q504 C1815
R505 560
C509 10n
C506 470u 16V
Q503 C4544
D504 1N4001
L501 0
R501 560
R502 680
R504 0
C501 390P
R503 680
Q502 C1815
Q501 C4544
R516 18K 2W
R517 18K 2W
R518 18K 2W
C504 10u 250V
L506
C508 10n
L505
R521 2.7K 1/2W
R520 2.7K 1/2W
R519 2.7K 1/2W
KB
KG
KR
HEA-TER
GND
CRT
L504 0
C505 1000P 2KV
L503 5.6uH
L502 22uH
200V
H1
H2
SCREEN
FOCUS
P502
P501
EHT
A2-8
A2-9
A2-7

SIDE AV PANEL SCHEMATIC DIAGRAM

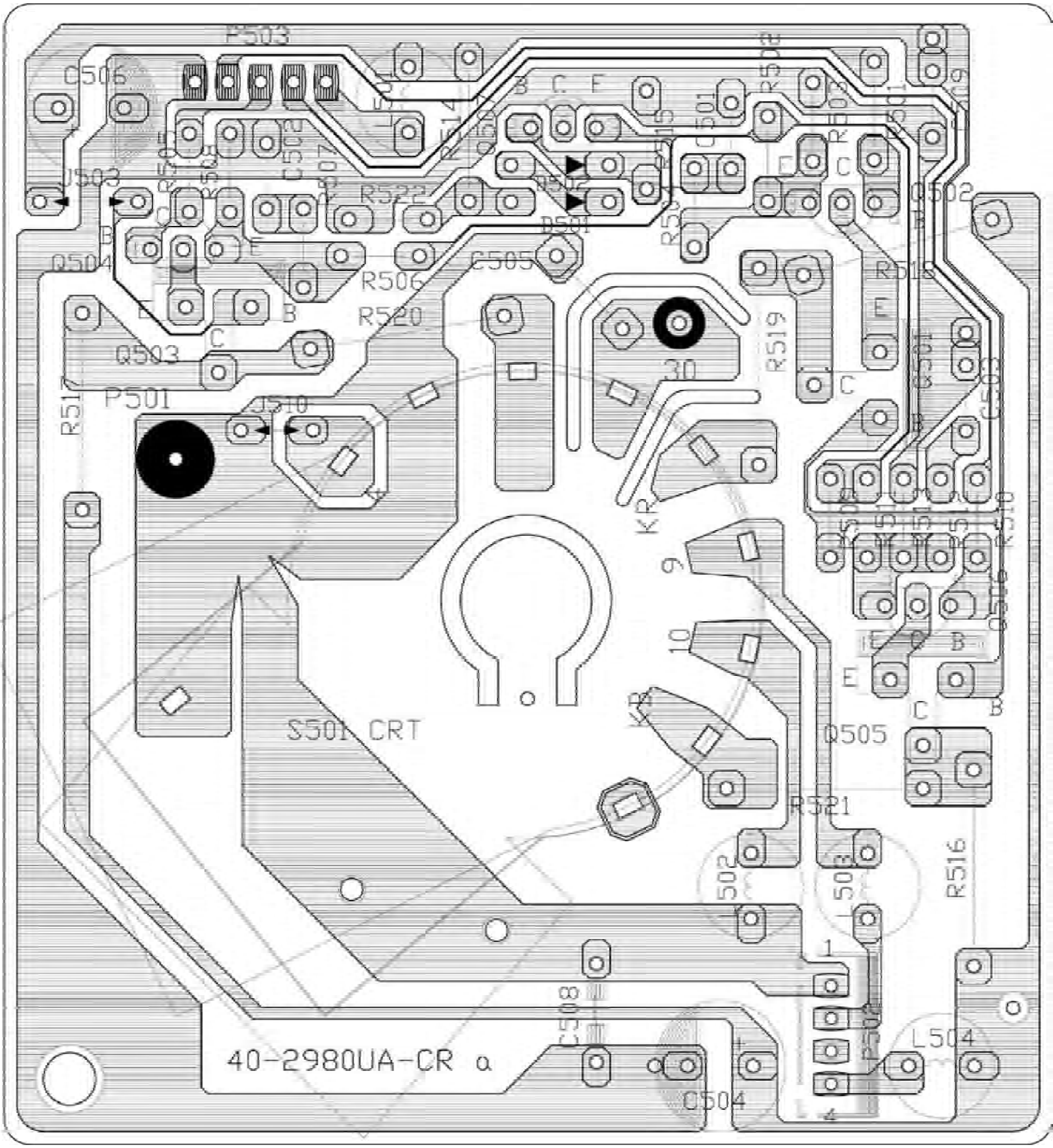



MAIN CBA - TOP LEFT SECTION 1 OF 4
MAIN CBA - TOP RIGHT SECTION 2 OF 4
40-2980UA-MA
WARNING: DISCONNECT PLUG FROM MAINS BEFORE REPLACING FUSE
CAUTION LIVE AREA



MAIN CBA - BOTTOM LEFT SECTION 3 OF 4

MAIN CBA - BOTTOM RIGHT SECTION 4 OF 4


P503
C506
J503
Q504
R506
R520
R522
C505
D501
D502
Q503
P501
J510
R517
R519
R518
Q502
Q505
R521
R516
L504
C504
C508
S501 CRT
40-2980UA-CR a

SIDE AV PANEL CBA

